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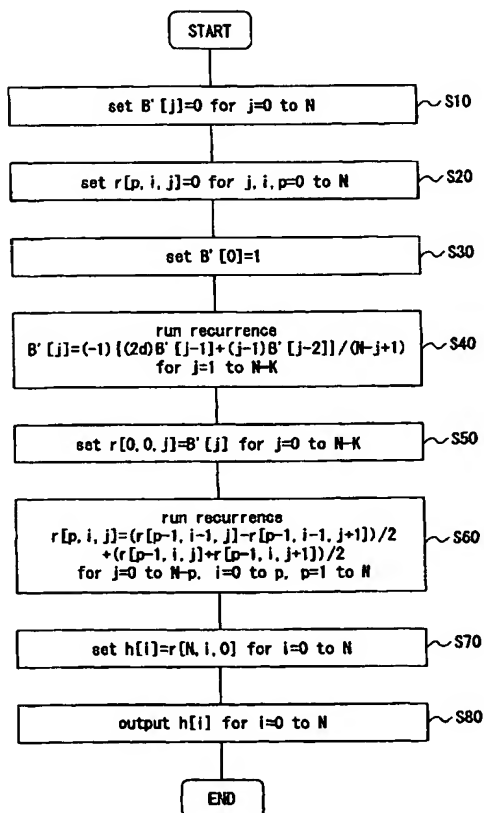
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(54) Title: METHOD OF COMPUTING FIR FILTER COEFFICIENT AND PROGRAM FOR COMPUTING SAME



(57) Abstract: The computer executes a first operation by a first recurrence formula, receiving a filter order (positive integer) of a universal maximally flat FIR filter, the number of zeros at  $z=-1$  (integer equal to or more than zero), and a parameter for a group delay at  $z=1$  (rational number). The first recurrence formula includes parameters for the filter order, the number of zeros, and the group delay, and provides coefficients in Bernstein form representation of a transfer function of a universal maximally flat FIR filter. The computer then executes a second operation composed of additions, subtractions, and division by 2 by a second recurrence formula by using a resultant of the first operation as an initial value to extract impulse response coefficients of the universal maximally flat FIR filter from a resultant of the second operation.



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